Miele
PROFESSIONAL

Installation and Operating Instructions

Washer-Disinfector G 7881

To avoid the risk of personal injury or damage to the appliance, it is **essential** that you read these operating instructions **before** installation and use.

en - CA

M.-Nr. 07 450 830

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This appliance complies with all applicable safety laws and regulations. However, inappropriate use can result in personal injury and property damage.
Read the operating instructions carefully before using this machine. This will help keep you safe and avoid damage to the machine.

The manufacturer cannot be held responsible for damage caused by non-observance of these Important Safety Instructions.

Keep these instructions in a safe, accessible location and pass them on to any future user.

Proper use

▶ This machine is not intended for any purpose that is not indicated in the operating instructions. Conversions, modifications and other unintended uses are considered to be dangerous. The cleaning and disinfection processes described here apply only to those items that are specifically designed by the manufacturer to be re-used. Always follow the product manufacturer's instructions. Only clean items which are stated by the manufacturer as being suitable for cleaning and disinfecting in this type of machine. Miele will not be held liable for damage caused by incorrect use of any kind.

▶ This machine is intended exclusively for use in interior locations.

▶ The appliance is not designed for use in non-stationary locations (for example, on ships). However, this use may be possible if a qualified specialist determines that the appliance can be used safely in the location in question.

To avoid injury, please follow these instructions!

▶ This machine should only be installed, maintained and repaired by a Miele-authorized service technician. Work performed by unqualified persons can place the user at considerable risk of harm.

▶ Do NOT install the machine in an area where there may be the danger of explosion or freezing.

▶ The electrical safety of this appliance can be ensured only when it has been properly grounded in compliance with applicable safety regulations. It is imperative that this basic safety requirement be met. In case of doubt, have the electrical system checked by a qualified technician.
The manufacturer will not be held liable for damages resulting from an inadequate grounding system (e.g. electric shock).

▶ A damaged appliance can endanger your safety. Immediately turn off the machine at the power switch and contact the Miele Service Department.

▶ Machine operators must be trained on a regular basis. Untrained personnel must not be allowed access to the machine or its controls.

▶ Always exercise caution when handling chemicals for this machine (cleaner, neutralizer, rinsing agent, etc.). Some of these products contain corrosive and irritating substances. NEVER use organic solvents or flammable liquids due to the risk of explosion.
Always follow proper safety technique. Use protective glasses and gloves. Always follow the manufacturer's safety recommendations when using process chemicals (see material safety data sheets).

▶ Avoid inhaling powdered products. Swallowing process chemicals can result in chemical burns to the mouth and throat and suffocation.

▶ The water in the wash cabinet is NOT safe to drink.

▶ Do not stand, sit or lean on the open door. The appliance might tip over or be damaged.

▶ Take care when sorting standing items with sharp pointed ends. Position them in the machine so that you will not hurt yourself or create a danger for others.

▶ When operating this machine, beware of the high temperatures involved. If you bypass the electrical lock to open the door, there is the danger of scalding and heat or chemical burns. If disinfectants have been used, there is also the danger of inhaling toxic vapour.

▶ If you are exposed to toxic vapours or processing chemicals, consult the manufacturer's material safety data sheets for emergency procedures.

▶ Always allow baskets, inserts and the washload to cool down. Empty any water from hollow items into the wash cabinet.

▶ Do not touch the heating elements when you open the door at the end of a program. They remain hot for quite a few minutes after the program has ended and can cause burns.

▶ NEVER hose down the machine or the immediate vicinity, e.g., with a water hose or pressure washer.

▶ Before servicing the machine, disconnect it from the power supply by either removing the fuse, unplugging the unit or manually tripping the circuit breaker.

The following points should always be observed to assist in maintaining quality standards when processing medical devices and critical items, to protect patients and to avoid damage to property.

▶ Only authorized persons may interrupt a program and only in exceptional cases.

▶ It is the responsibility of the operator to routinely check that the required cleaning and disinfection standards are being met, therefore, process results need to be regularly tested and documented, both thermoelectrically and through inspection. For thermochemical processes, additional testing is required using chemical or biological indicators.

▶ For thermal disinfection, the appropriate temperatures and holding times, as required by microbiological and public health standards and guidelines, must be used to achieve the required degree of infection control.

▶ If toxic chemicals may be present in the wash cabinet (e. g. aldehydes in the disinfectant), beware of this risk when interrupting a program and opening the machine. The door seal and steam condensor must always be checked for soundness.

▶ Under certain circumstances, the processing chemicals can cause damage to the appliance. Consult Miele Customer Service for recommendations. For concerns involving possible damage to the appliance or materials, please consult a Miele Application Specialist.

▶ Pre-treating (e. g. with cleaning agents or disinfectants), some types of soiling and the interaction of certain processing chemicals can cause foaming. Suds can have an adverse effect on the results obtained. For pre-treatment and/or cleaning only use low-sudsing detergents which have been approved by Miele.

▶ The recommendation to use process chemicals (for example, detergents) does not mean that the machine manufacturer accepts liability for how these process chemicals may affect the items involved. Note that formulation changes, storage conditions, etc., that are not disclosed by the manufacturer may alter the cleaning results obtained.

▶ When using cleaning agents and special-purpose products, comply strictly with the product manufacturer's instructions. Use cleaning agents only for the applications intended by the manufacturer so as to avoid possible chemical reactions (such as explosive oxyhydrogen gas reactions).

▶ The appliance is designed only for operation with water and additive cleaning agents. Organic solvents must NOT be used, as there is the danger of explosion and/or damage (Note: while certain organic solvents do not carry a risk of explosion, they may nonetheless cause other problems, such as damage to rubber and synthetic parts).

▶ For critical applications, where very high processing-quality requirements have to be met, it is strongly recommended that all process-related factors (cleaning agents, water quality, etc.) be discussed in advance with Miele's Application Specialist.

▶ Only use mobile units, modules and inserts as intended by the manufacturer.
Hollow items must be positioned for full exposure to wash water.

▶ Empty all containers and hollow utensils before loading them.

▶ Ensure that no acid or solvent residues, especially hydrochloric acid or chloride solutions, get inside the wash cabinet. This also applies for corrosive ferrous material.
Solvents combined with contaminants (especially from hazard class A1) should be present in trace amounts only.

▶ To avoid corrosion damage, make sure the stainless steel housing does not come into contact with solutions/steam containing hydrochloric acid.

▶ Whenever work is conducted on the tap water network, the water supply line to the machine must be cleared of air. Failure to do so can result in damage to the water softener.

▶ Please be sure to follow the installation instructions in this manual and in the separate installation manual.

Using accessories

▶ Whatever the application, only Miele accessories should be connected to this machine.

▶ Only Miele mobile units, modules and inserts should be used. If Miele accessories are altered in any way, or equipment from another manufacturer is used, Miele cannot ensure the cleaning and disinfection results. Damage or injury caused in this way are excluded from the warranty.

▶ Only use process chemicals that are approved by their manufacturer for the application involved. Any negative effects on items and the machine itself are the liability of the chemical manufacturer.

Symbols on the appliance

Caution:
Comply with the Operating Instructions!

Caution:
Danger of electric shock!

Disposing of your old appliance

▶ Old appliances may be contaminated from exposure to pathogens, genetically modified material, blood, etc. and therefore must be decontaminated before disposal. For safety and environmental protection, be sure to drain/remove all process chemical residue. (Comply with safety regulations and wear protective eyewear and gloves.) Make the door lock inoperative or remove the door completely, so that children cannot accidentally shut themselves in. The appliance can now be sent for disposal through the proper resource recovery facilities.

The manufacturer will not be held liable for damage caused by failure to comply with the safety instructions and warnings.

Description of the machine

The Miele washer-disinfector is designed to clean, rinse and thermally disinfect re-usable equipment.

Always comply with the particular manufacturer's instructions (EN ISO 17664).

Examples of items that can be processed in this appliance are instruments, suction equipment, transfer instruments, etc.

For standardized results, it is preferable to machine-wash equipment.

When disinfection is required, the preference is for thermal disinfection, e. g., using the Disinfection vario program.

According to the A_0 concept under EN ISO 15883-1, thermal disinfection occurs at 90 °C (+ 5 °C, - 0 °C) and a holding time of 5 min (A_0 3000). The efficacy standard A_0 3000 includes the inactivation of HBV.

Regional and/or other official directives may apply (e. g., §18 of the IfSG for Germany).

The cleaning parameters should always be optimally matched to the type of soiling and items involved.

Processing chemicals are to be selected to suit the particular cleaning needs involved.

For re-usable items to be safe for continued use, the cleaning result must meet certain minimum standards for disinfection, sterilization and residue levels.

Re-usable products are best cleaned using the Disinfection vario program.

Also important for acceptable cleaning results on equipment is the use of suitable loading accessories (baskets, modules, inserts). See the section on "Applications" for examples.

The washer-disinfector is designed to rinse with tap water or processed water (e.g., distilled water, pure water, deionized water, demineralized water) depending on the quality required for your application(s).

Under EN ISO 15883, this washer-disinfector is suitable for process validation.

High -level disinfection

The washer-disinfector cleans items, and in the disinfection program, simultaneously thermally disinfects at 93°C/200°F.

Areas of effectiveness are physical removal or thermal inactivation of vegetative bacteria including mycobacteria, fungi, fungal spores and viruses. These catergories include the Mycobacterium tuberculosis and the Enterococcus faecium.

Important: Only the program labelled "disinfection" disinfects! Only use this program when handling contaminated items. All other programs are designed to clean items without disinfecting.

The washer-disinfector achieves **high-level disinfection** as defined by the Spaulding categorization.

The Spaulding category high-level disinfection is the same type of means as in the sterilant category except that the use pattern is different. The sterilant is used as a high-level disinfectant by e.g. reducing the exposure time within its effective range of tuberculocidal, virucidal and bactericidal action.

Instruments suitable for processing in the washer-disinfector

In general, only high quality stainless steel items are suitable for processing in the washer-disinfector. All items to be cleaned and disinfected in the washer-disinfector should have the following properties:

– heat resistance to a temperature of 95°C/203°F

– corrosion resistance in the presence of heat and alkalinity.

The heat retention capacity of stainless steel allows for fast drying. Plastic has a lower heat retention capacity, thus requiring a longer drying time. In this case, a slightly extended waiting period of 5-15 minutes may be necessary after the disinfection cycle.

Aluminum items may discolour during the cleaning process. Aluminum has only a limited suitability for processing in the washer-disinfector.

Carbon steel and chrome-plated items may corrode during the cleaning process. Processing these types of items in the washer-disinfector is NOT recommended.

Hand pieces, drill bits, grinders, root canal instruments or other rotating items are not suitable for the washer-disinfector. Do not process them in the washer-disinfector.

Do not clean fiberoptics or electrical equipment and components in the washer-disinfector.

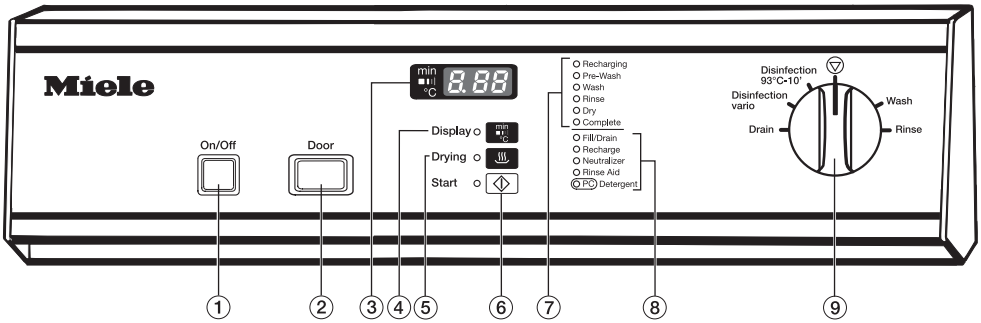
Rhodium coated mirrors must be arranged so that their surfaces do not suffer any mechanical damage. Not all specula with glass are suitable for machine treatment.

If you have questions regarding whether an item is suitable for processing in the washer-disinfector, please seek the advice of the item manufacturer.

Water Quality

Good water quality is essential for processing items in the washer-disinfector, otherwise, item corrosion may result.

Poor water quality consists of, but is not limited to, high concentrations of chlorides (over 50 ppm). High chloride levels will cause even high quality stainless steel items to rust when processed in the washer-disinfector. Other effects that may be noticed are tarnishing or "blueing" of items due to dissolved minerals in the water.



① ON/OFF switch

② Door release

③ Time/Display

④ Toggle switch to show:
- actual temperature
- elapsed time
- active wash block

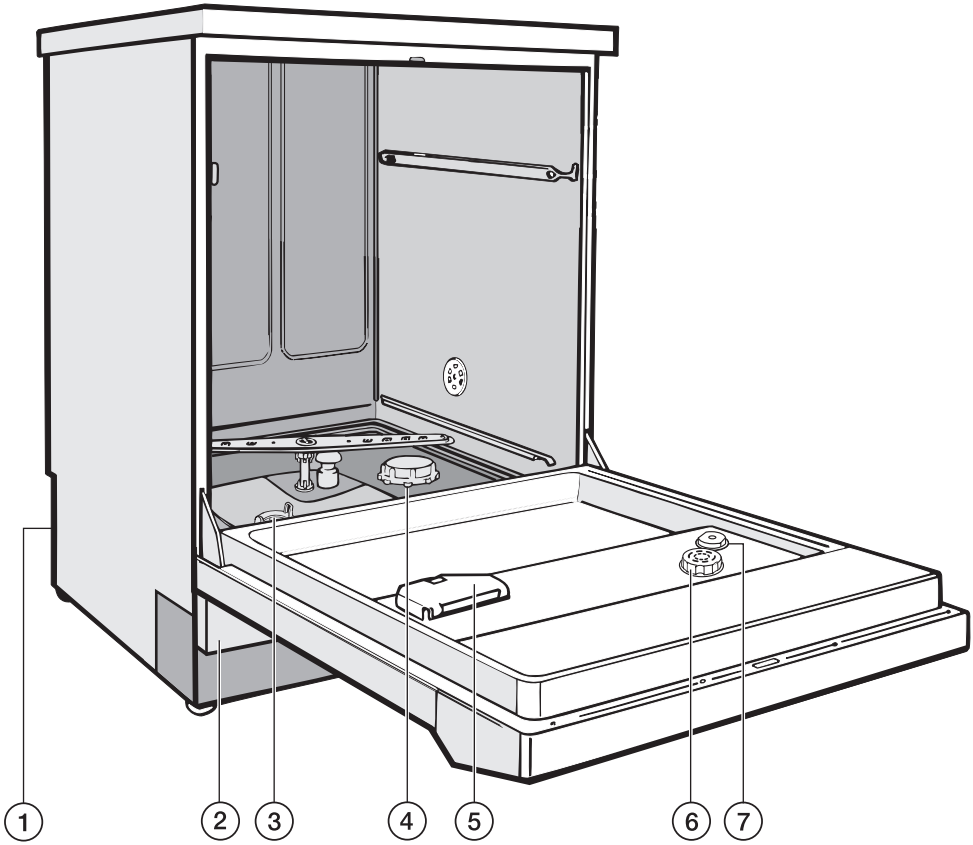
⑤ Drying button with indicator light

⑥ Start button with indicator light

⑦ Program sequence display:
Recharging
Pre-Wash
Wash
Rinse
Dry
Complete

⑧ Check/Fill indicators:
Fill / Drain
Recharge
Neutralizer
Rinse Aid
OPC Detergent — optical interface for service technician; for connected DOS Module K 60: liquid detergent

⑨ Program selector
Stop
Wash
Rinse
Drain
Disinfection 93°C-10"
Disinfection vario



① Connection for DOS module K 60 on rear side of appliance

② Service panel

③ Filter combination

④ Reservoir for regenerating salt

⑤ Compartment for powdered detergent

⑥ Reservoir for rinse aid, with dosage selector

⑦ Rinse aid level indicator

on rear side of the appliance:

– Suction uptake for external neutralizer reservoir

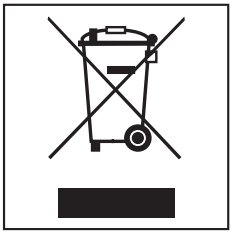
Disposal of packing materials

The packing materials help protect the appliance during transport. They have been selected with an eye to environmental compatibility and efficient disposal and should be recycled.

Returning packaging to the materials cycle saves raw material and reduces waste.

Disposing of your old appliance

Old electric and electronic equipment often contains valuable materials but they may also contain harmful substances that were necessary for safe use. Improperly disposing of these items in your household waste can harm human health and the environment. This is why it is important to NEVER dispose of your old appliance with the regular household garbage.



Instead, please contact your local community waste collection point to return and recycle electric and electronic appliances.

If the appliance is being stored for disposal, please make sure it has been child-proofed.

Before using for the first time

Before using the machine for the first time please pay special attention to the following points:

Detailed information on these points can be found in the relevant section of the Operating Instructions.

Set the water softener

The water softener must be set to the water hardness level of your area.

Contact your local water authority to find your water hardness level in parts per million (ppm) or grains per gallon (gr/gal).

The salt reservoir must be filled first with water and then with reactivation salt.

Filling the salt reservoir with cleaning agent by mistake will cause serious damage to the water softener. Please check every time before refilling that the package contains reactivation salt.

Add rinsing agent

Inadvertently filling the rinsing agent reservoir with cleaning agent (including liquid cleaning agents and dishwashing soap) will cause serious damage to the reservoir.

Only use detergents suitable for use in disinfecting washers.

Do not use detergents formulated for use in domestic dishwashers.

Load the machine carefully.

Arrange the load so that water will come into contact with all surfaces. Concealed surfaces will not be cleaned.

The spray arms must not be blocked by any items.

Adding detergent

Follow the dosage recommendations of the cleaning agent manufacturer.

The filter combination at the base of the wash cabinet and the spray arms must be clean.

Regular checking and cleaning is essential.

Electric door lock

The machine is equipped with an electric door lock.

The door can only be opened when

- the electrical supply to the machine is turned on and the
- "ON/OFF" switch is pressed.

How to open the door

- Press the "Door" button in as far as it will go, at the same time, grip the handle and open the door.

⚠ Do not touch the heating elements when you open the door at the end of a program. They remain hot for quite a few minutes after the program has ended and can cause burns.

Once a program has started, the door stays locked until completion and cannot be opened, however, the two programs "Rinse" and "Drain" are exempt from the electric door lock.

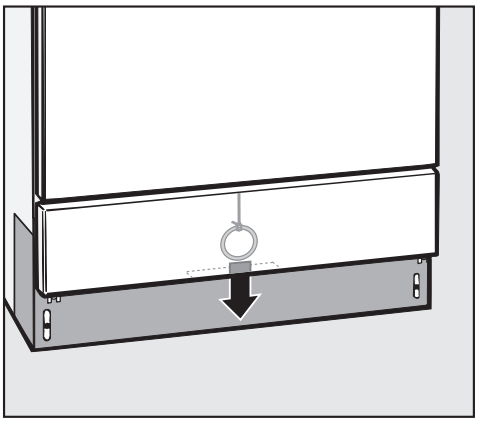
How to close the door

- Lift the door upward and push it until it clicks shut. Do not press the release catch while shutting the door.

How to use the emergency release (opening the door during a power failure)

The emergency release feature should only be used when it is not possible to open the door normally, for example, after a power outage. For all SPECIAL programs, please read the "Safety Information and Warnings".

- Turn the program selector to the 12 o'clock position ⓥ .
- Press the "ON/OFF" button to switch off the machine.



- Locate the ring for the emergency release cable (at the bottom of the machine, behind the service panel), and pull the ring downward to open the door.

Water softener

In order to provide good cleaning results, the machine requires a supply of soft water (water that is low in calcium and magnesium). If hard tap water is used, it can leave a white mineral deposit build-up on the items and the machine itself, therefore, tap water with a hardness of 4 °d (0.7 mmol/l) or more must be softened. The built-in water softener is designed for this purpose.

– In order to function properly, the water softener requires a supply of reactivation salt.

– The cleaner must be correctly programmed to match the hardness of the tap water supply.

– Your local water authority will provide information about the hardness of the tap water in your area.

If the water hardness is known to fluctuate (e. g., 8 - 17 °d), always program for the highest value (in this instance 17 °d).

The built-in water softener can be programmed at settings from 1 °d to 60 °d (1-60 gr/gal or 20-1080 ppm).

It is useful to make a note of the water hardness so that you can provide the service technician with this information in the event of any service calls.

Please note the water hardness in the space provided here:

_____ °d

How to program the water softener

- Use the "ON/OFF" button to switch off the machine.
- Turn the program selector to the 12 o'clock position ⊽.
- **Simultaneously** press and hold the "Display" min/c and "Start" ◇ buttons, while turning the machine on with the "ON/OFF" button.

The current program status *P*.... will appear in the display, and the "Fill/Drain" indicator light will come on.

- Press the "Drying" button one time.

E01 wil appear in the display.

- Turn the program selector one switch position clockwise (to the 1 o'clock position).

The number *19* will appear in the display (this indicates the factory setting in °d).

- Press or hold down the "Display" min/c button until the required value (Hardness in °d) appears in the display.

Please refer to the next page for detailed water hardness tables (water hardness in °d, mmol/l and °f).

Once the *60* setting has been reached, the counter begins again from *0*.

- Press the "Start" ◇ button.

SP will appear in the display.

- Press the "Start" ◇ button again to save.

Settings

°d	mmol/l	°f	**Settings**
			0 *)
1	0,2	2	**1**
2	0,4	4	**2**
3	0,5	5	**3**
4	0,7	7	**4**
5	0,9	9	**5**
6	1,1	11	**6**
7	1,3	13	**7**
8	1,4	14	**8**
9	1,6	16	**9**
10	1,8	18	**10**
11	2,0	20	**11**
12	2,2	22	**12**
13	2,3	23	**13**
14	2,5	25	**14**
15	2,7	27	**15**
16	2,9	29	**16**
17	3,1	31	**17**
18	3,2	32	**18**
19	3,4	34	**19 **)**
20	3,6	36	**20**
21	3,8	38	**21**
22	4,0	40	**22**
23	4,1	41	**23**
24	4,3	43	**24**
25	4,5	45	**25**
26	4,7	47	**26**
27	4,9	49	**27**
28	5,0	50	**28**
29	5,2	52	**29**
30	5,4	54	**30**
31	5,6	56	**31**
32	5,8	58	**32**
33	5,9	59	**33**
34	6,1	61	**34**
35	6,3	63	**35**
36	6,5	65	**36**
37	6,7	67	**37**
38	6,8	68	**38**
39	7,0	70	**39**
40	7,2	72	**40**
41	7,4	74	**41**
42	7,6	76	**42**
43	7,7	77	**43**
44	7,9	79	**44**
45	8,1	81	**45**
46	8,3	83	**46**
47	8,5	85	**47**
48	8,6	86	**48**
49	8,8	88	**49**
50	9,0	90	**50**
51	9,2	92	**51**
52	9,4	94	**52**
53	9,5	95	**53**
54	9,7	97	**54**
55	9,9	99	**55**
56	10,1	101	**56**
57	10,3	103	**57**
58	10,4	104	**58**
59	10,6	106	**59**
60	10,8	108	**60**

***)** the setting 0 should only be used for machines without a water softener.

****)** factory setting

How to fill the salt reservoir

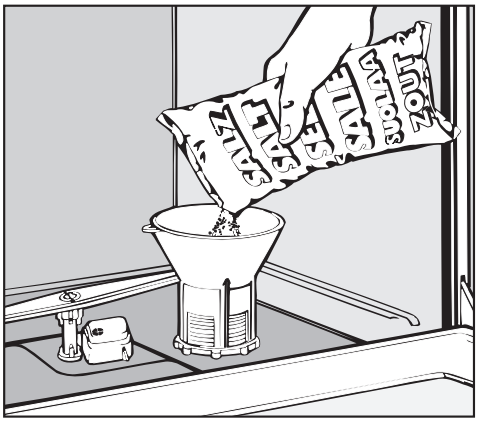
Only use special, coarse-grained, Miele reactivation salt with a grain size of 1 - 4 mm. NEVER use other types of salt, such as table salt, cattle salt or de-icing salt. These salts can contain components that are insoluble in water and could damage the water softener.

The salt reservoir holds approximately 2.5 kg salt.

⚠ Inadvertently filling the salt reservoir with detergent WILL damage the water softener.
Before filling the reservoir, always make sure that you are using reactivation salt.

- Remove the bottom basket from the machine.
- Unscrew the salt reservoir cap.

Before filling the salt reservoir for the first time:
fill the reservoir with approximately 2.5 liters of water, so that the salt can dissolve properly. Once the washer-disinfector has been operated, there will always be enough water in the reservoir.



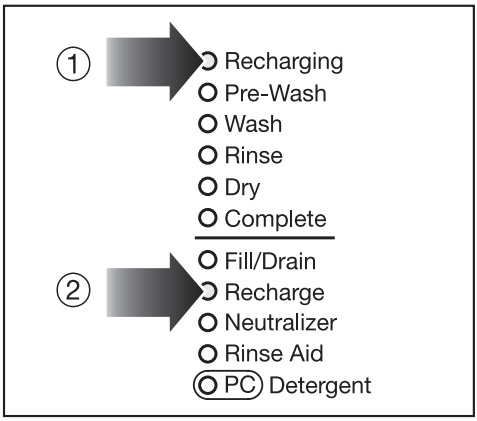
- Place the provided funnel accessory over the salt reservoir.
- Carefully fill the reservoir with reactivation salt.

Some displaced water will run out - this is normal.

- Wipe any residual salt off the screw threads on the reservoir.
- Screw the cap back on completely.
- Immediately after this step, start the "Rinse" program, to remove any traces of salt from the inside of the machine.

Note: There may be a delay of a few minutes before the "Rinse" program starts - this is normal. It simply means the water softener is being reactivated as needed.

Refill Salt Indicator



The water softener is automatically regenerated during the next program cycle.
The program display will show ① Recharging during this process.

- Add regeneration salt whenever the Refill salt indicator ② Recharge is on.

Application

Depending on the type of items you wish to clean and disinfect, the washer-disinfector can be used with an upper basket and/or lower basket, as well as, an assortment of inserts and special baskets to suit your needs.

Baskets and inserts should be properly selected to match the application involved.

On the following pages you will find loading examples and additional information.

Before EVERY program start, conduct the following visual inspection:

– Are the items properly loaded and secured in the machine?

– Are the hollow items properly loaded so that all cavities and channels will be flushed clean?

– Are the spray arms clean and can they rotate freely?

– Is the filter combination free of coarse debris (remove any coarse material and clean the coarse, fine, flat and micro-fine filters as needed)?

– Is the basket adapter properly connected to the water supply for the spray arms and nozzles?

– Are the process chemical dispensers filled?

After EVERY program completion, conduct the following visual inspection:

– Inspect the items for cleanliness.

– After washing, items should be checked at random for protein analysis, e. g., with the Miele Test Kit.

– Have any hollow items been dislodged from their proper position on the nozzles?

⚠ Any items that were dislodged from the adapters during a program cycle must be washed again.

– Are the cavities and channels in any hollow items cleaned through?

– Are the nozzles and connections firmly attached to the baskets/inserts?

How to load the machine

– Always load items in such a way that all surfaces will be exposed to the cleaning water. This ensures that the items will be properly clean.

– Do not nest any items inside other items. Keep each item separate.

– Hollow items must be arranged for complete inside exposure to the cleaning water.

– Hollow items should be inverted and placed in suitable baskets and inserts so that the water will have unrestricted access and exit.

– Deep-based items should be arranged at an angle, so that water can run off easily.

– Tall narrow pieces should be placed in the center of the basket for best water coverage.

– Baskets and inserts with an adapter must be properly connected.

– The spray arms must not be blocked by items that are too tall or hang through the baskets.

– To avoid corrosion, only load stainless steel items in good condition.

– Do NOT use this machine to wash nickel-plated items or discolored (oxidized) aluminum items.

– Do not load plastics unless they are heat-resistant.

– NEVER process disposable items in the washer-disinfector.

Prepare items before loading

■ Empty all items before loading into the machine. Comply with all applicable infection-control regulations.

⚠ Ensure that no acid or solvent residues, especially hydrochloric acid or chlorides, get inside the machine.

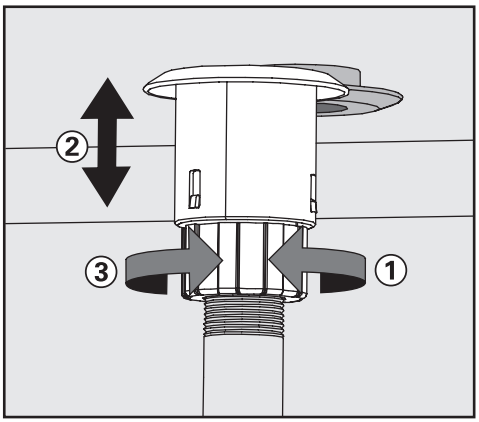
Item sorting

Contaminated items should be placed directly in the washer-disinfector without pre-treatment (dry handling).

Spring adapter for the water connection

The spring adapter for the water connection must be properly engaged when a basket is inserted into the machine. In other words, the adapter must be 4 - 5 mm higher than the water inlet in the machine.

If this is not the case, the adapter needs to be adjusted as follows:



- Loosen the locking ring ①.
- Move the adapter up to the proper height ②.
- Tighten down the locking ring ③.

How to adjust the upper basket

The upper basket can be adjusted above and below the middle position by 2 cm each.

Depending on the height selected, and which inserts are used, items of various heights can be arranged in the baskets.

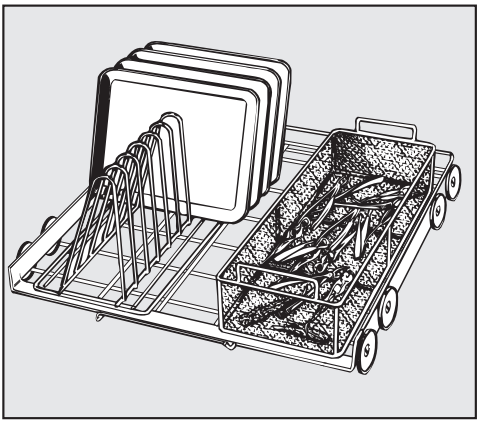
To adjust the upper basket:

- Pull the upper basket out as far as it will go, lift it up off the runners and remove.
- Use a 7mm wrench to unscrew the roller bearings on either side of the basket, then reposition as desired.

Application

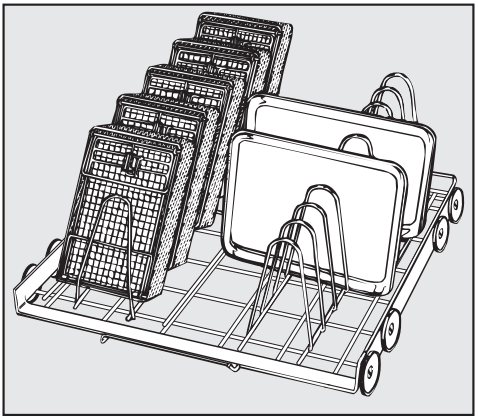
During patient treatment, check that **as little residue as possible (dental cement, polishing compound, etc.)** is left on the items (wipe off as needed). After thermal disinfection, manual cleaning in accordance with the biological materials ordinance can be conducted without danger of infection.

Rhodium coated mirrors must be arranged so that their surfaces do not suffer any mechanical damage. Not all glass coated mirrors are suitable for machine processing.



Lower basket U 874/2

for inserts, e.g., E 130 and E 379.



Lower basket U 874/2

for inserts, e.g., E 131/1 for 5 filing trays with partitions E 146 or 5 filing trays for two-sided instruments E 363.

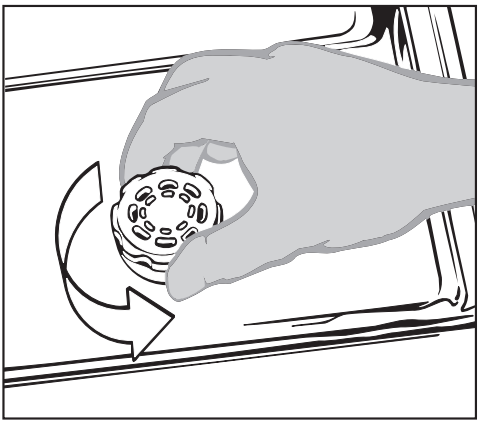
Adding rinse aid

Rinse aid is needed to ensure that water promptly falls away from the washload, preventing spots and speeding up the drying process. Rinse aid (Mielclear) is loaded into the reservoir and a pre-set amount is dispensed automatically.

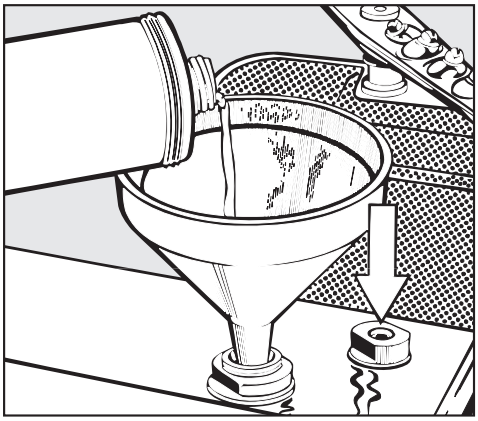
The rinse aid reservoir holds approximately 180 ml.

⚠ Inadvertently filling the rinse aid reservoir with detergent WILL damage the machine. Be sure only to use rinse aid in the rinse aid reservoir.

- Open the machine door.

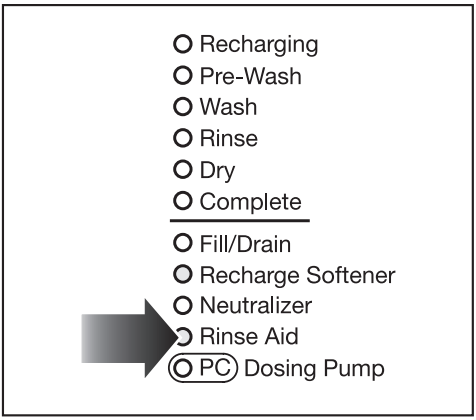


- Unscrew the reservoir cap.



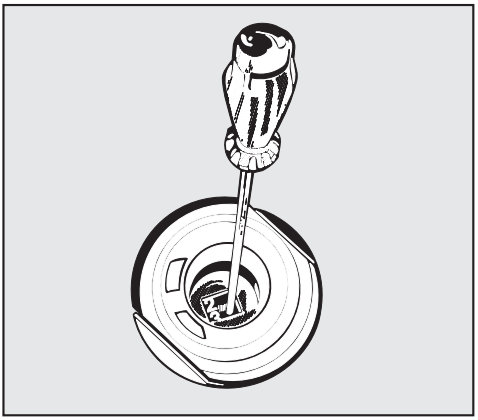
- Pour enough rinse aid into the reservoir until the level indicator (see arrow) is dark. Use a funnel if necessary.
- Replace and tighten the reservoir cap.
- Wipe up any spilled rinse aid to prevent oversudsing during the next wash cycle.

Rinse aid indicator light



- Rinse aid does not need to be refilled until the "rinse" indicator light comes on in the display.

Setting the rinse aid dosage



The dosage adjuster has settings from 1 to 6 (in other words, 1 - 6 ml). The factory setting is at 3 ml.

If the items show spots after washing,

- adjust to a higher setting.

If the items show smearing or cloudy streaks after washing,

- adjust to a lower setting.

How to add neutralizer

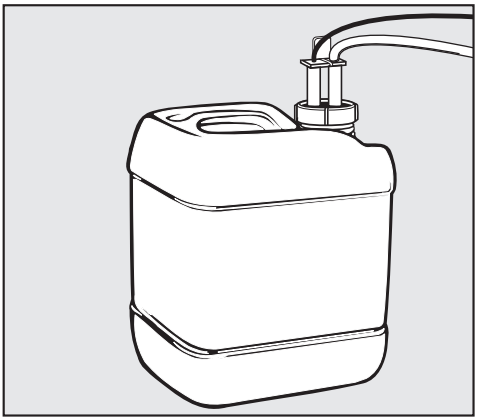
For certain programs, neutralizer is dispensed in the rinse cycle after washing, to help prevent discoloration and corrosion spots on the items (especially around jointed areas). Neutralizer (pH = acidic) also helps counteract any traces of (alkaline) detergent from the surface of the items.

When a mild alkaline detergent is used for washing, select a neutralizer that contains phosphoric acid.
When a neutral enzymatic liquid detergent is used, select a neutralizer that contains citric acid.

The neutralizer is automatically dispensed during the second rinse after the main wash cycle. To function properly, the neutralizer container must be filled and cleared of air (primed).

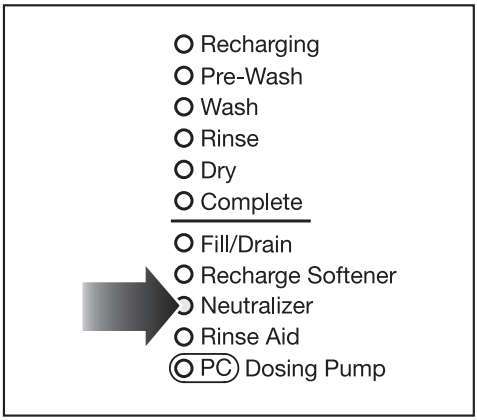
For specific instructions on how to prime the system and set the dosage, please read the section on "Programming special functions".

- Place the neutralizer container (red) next to the machine on the floor or in an adjacent cabinet.



- Insert the siphon tube into the container opening and screw it into place.

Neutralizer indicator light



- When the "Neutralizer" indicator light comes on, it is important to promptly refill or exchange the neutralizer container.

The "Neutralizer" indicator light should turn off.

- If the container has been allowed to run dry, the light will not go out until the priming process is performed (See "priming the neutralizer dispensing system").

Be sure to refill / exchange the container before it becomes completely empty.

How to add detergent

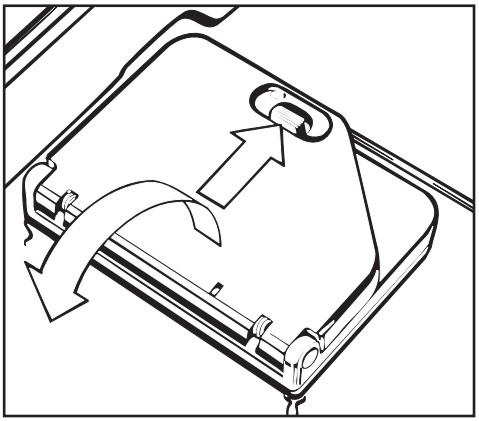
Using powder detergent

Before starting the program, load the powdered detergent into the receptacle (except for the programs "Rinse" and "Drain").

Examples:

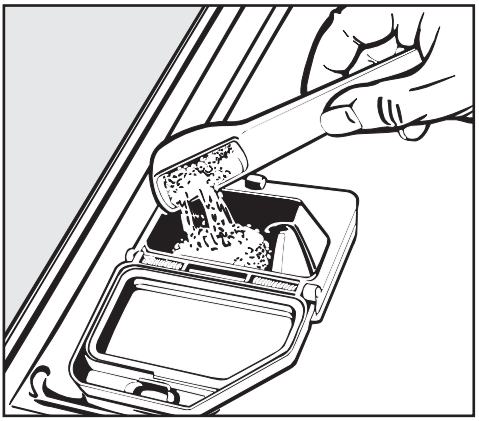
In the program cycle "Main Wash", approximately 10.5 liters of water flow into the machine.
To achieve a detergent concentration of approximately 3 g/l, use 30 g of detergent.

Always follow the detergent manufacturer's recommendations for dosage concentration.



- Press the button on the dispenser cover. The cover will pop open.

After a completed wash program, the cover will already be open.



- Load the detergent into the receptacle.
- Snap the cover closed.

⚠ After program completion, check to see that all the detergent dissolved completely.
If not, the entire program should be repeated.

Liquid option

As a separate option, this machine can be fitted with a dispenser pump for automatic liquid detergent dispensing (DOS Module K 60). This is connected externally.

The optional DOS Module K 60 is supplied with its own installation and connection instructions.

The liquid detergent is automatically dispensed in the wash step of the program.

- Place the container of detergent next to the machine.

See "Programming functions" to prime the dispensing system and set the dispensing amount.

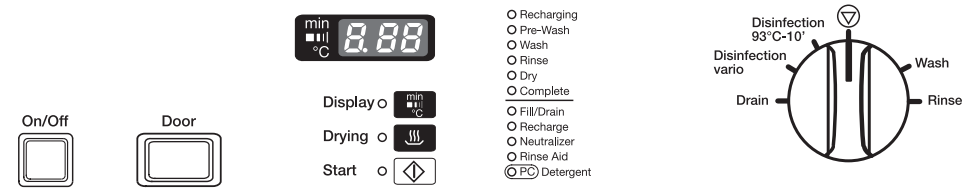
When using liquid detergent the optional DOS Module K 60 must be used.

Refilling the liquid detergent

Replace the current detergent container with a full one.

- The indicator light should turn off.
- If the container has been allowed to run dry, the light will not go out until the priming process has been performed.

Always follow the detergent manufacturer's recommendations for dosage concentration.



How to switch on

- Close the door.
- Press the "ON/OFF" button.

A dot will appear in the display when the program selector is at the 12 o'clock ⏚ position.

Starting a program

Always choose a program to match the type and soiling level of the washload. See the **program guide** for a description of the various programs available.

- Turn the program selector left or right to the desired program.

The temperature of the first wash for the program selected will show in the display, except for the "Rinse" and "Drain" programs.
The indicator next to the "Start" ⏀ button will flash.

Select the additional "Drying" feature

Immediately once a program has been selected, "Drying" can be selected as an additional feature, except in the "Rinse" and "Drain" programs.

To do so:

- Press the "Drying" button.

The drying program is timed to run for 10 min. The total program time is extended accordingly.

- Press the "Start" ⏀ button.

The current program status will appear in the display and the indicator light next to the "Drain" button will come on.

During the running of the program, all other programs are blocked.
If the program selector is turned to another program, the display goes out. Once the program selector is returned to the currently running program, the display will show the current information.

While the program is running, any of the following displays can be selected:

– Actual temperature,

– Elapsed program time and

– Active wash block.

■ Press the "Display" button to toggle between the displays.

Progress indicator

The indicator light for the active program is lit while the program is running:

Recharging

Pre-Wash 1 + 2

Wash 1 + 2 *

Rinse 1 - 4 /
Final rinse 1 + 2

Dry

Complete (program parameters achieved)

End of program

A program is completed when the indicator light "Complete", in the progress display, is lit and the indicator light "Start" goes out. A *0* will appear in the middle of the display and all other indicators will come on and go out in sequence.

Simultaneously, a buzzer will sound for approx. 30 seconds (standard setting). The buzzer function can be changed (see "Programming special functions").

Use the "Display" button to view the total running time or current actual temperature of a program.

As soon as a program ends, the machine door should be opened approx. 10 cm for 10 - 15 min. By waiting to unload the machine, you will be using the residual heat to help obtain better drying results and resist corrosion.

How to switch off

- Press the "ON/OFF" button and let it pop up.

The door is equipped with an electric lock and can only be opened if the "ON/OFF" switch is pressed (see "Opening and closing the door").

How to cancel a program

Avoid cancelling a running program unless absolutely necessary, for example, if an item is moving around excessively or the wrong program has been selected.

- Turn the program selector to the 12 o'clock position ⓥ.

The program is cancelled after approx. 2 seconds.

- Open the door

⚠ Exercise extreme caution as items in the machine may be hot. Caution - danger of scalding and burns.

- Arrange items in a stable fashion, take all necessary infection control measures and wear gloves.
- If required, replenish powder detergent.
- Close the door.
- Start the program "Drain".

The water will be pumped away.

- Re-select the program, "Drying" if desired, and press the "Start" button.

For future servicing, be sure to document any changes made to the standard factory settings.
Enter the information in the field(s) provided.

General information:

– Program selector positions that have no assigned function are represented by a bar (-) in the middle of the display.

– To call up the programming level, use the 12 o'clock position ⊽.
The status *E..* will appear in the display.

– Any program or dosing changes in connection with the preparation of medical devices must be documented. In such cases, the washer-disinfector results (cleaning and/or disinfection) will need to be re-validated.

The following instructions apply to all programming functions:

Activate the programming mode

■ Turn the program selector to the 12 o'clock position ⊽.

■ Turn off the machine.

■ **Simultaneously** press and hold the "Display" min/°C and "Start" ◇ buttons, while turning on the machine by pressing the "ON/OFF" button.	The current program status *P..* appears in the display. The "Fill/Drain" indicator lights up.

Saving to memory and exiting the programming mode

■ Press the "Start" ◇ button.	*SP* appears in the display.
■ Press the "Start" ◇ button again.	The change will now be stored in the memory.

Exiting the programming mode without saving

■ Use the "ON/OFF" button to turn off the washer-disinfector.	The change is discarded.

DOS 1 dispensing (detergent)

Setting the liquid detergent dispensing concentration

The dispensing concentration only needs to be set for liquid detergents. Set the concentration according to the detergent manufacturer's recommendations. Do NOT change the setting if you are using powder detergent in the door dispenser.

Step	Display / Result
■ Activate the programming mode as per page 35.	
■ Press the "Drying" button until E02 appears in the display.	E02
■ Turn the program selector to the "Wash" program.	
Without DOS Module?	10 = 10 sec dispensing time
With DOS Module?	1.00 = 1.0 % dispensing concentration
■ Press or hold down the "Display" button until the desired value appears in the display, e.g., 0.50.	0.50 The dispensing time / dispensing concentration is now set.
■ Save to memory and exit programming mode as per page 35.	

Dispensing concentration setting: _____

Setting	Dosage
.10	20 ml
.20	30 ml
.30	40 ml
.40	50 ml*
.50	60 ml
.60	70 ml
.70	80 ml
.80	90 ml
.90	100 ml
1.0	110 ml

* Recommended dosage for neodisher FA

Priming the liquid detergent dispensing system

The dispensing system does not need to be primed (cleared of air) unless:
– the dispensing concentration is being set for the first time,
– the liquid detergent container was not refilled in time and became completely empty.

Step	Display / Result
■ Activate the programming mode as per page 35.	
■ Press the "Drying" button until E02 appears in the display.	E02
■ Turn the program selector to the 1 o'clock position.	do1
■ Press the "Display" button.	The dispensing system will be primed automatically. Priming is complete when 0 appears in the display.
■ Save to memory and exit programming mode as per page 35.	
■ Select the "Rinse" program and "Start" button to run a rinse cycle.	This will rinse away any agents that entered the wash cabinet after priming.

DOS 3 dispensing (neutralizer)

Setting the neutralizer concentration

Set the neutralizer dispensing concentration according to the manufacturer's recommendations or to meet specific requirements.

Step	Display / Result
■ Activate the programming mode as per page 35.	
■ Press the "Drying" button until E02 appears in the display.	E02
■ Set the program selector to the 6 o'clock position.	The programmed dispensing concentration appears in the display, e.g., 0.10 = 0.10 %
■ Press or hold down the "Display" button until the required value appears in the display, e.g., 0.20.	0.20 The dispensing concentration is now set.
■ Save to memory and exit programming mode as per page 35.	

Dispensing concentration setting: _____

Setting	Dosage
.10	20 ml
.20	30 ml
.30	40 ml
.40	50 ml*
.50	60 ml
.60	70 ml
.70	80 ml
.80	90 ml
.90	100 ml
1.0	110 ml

Priming the neutralizer dispensing system

The dispensing system does not need to be primed (cleared of air) unless:
– the dispensing concentration is being set for the first time,
– the processing chemical container was not refilled in time and became completely empty.

Step	Display / Result
■ Activate the programming mode as per page 35.	
■ Press the "Drying" button until E02 appears in the display.	E02
■ Set the program selector to the 5 o'clock position.	do3
■ Press the "Display" button.	The dispensing system will be primed automatically. Priming is complete when 0 appears in the display.
■ Save to memory and exit programming mode as per page 35.	
Select the "Rinse" program and "Start" button to run a rinse cycle.	This will rinse away any agents that entered the wash cabinet after priming.

Buzzer

The buzzer can be programmed for the following functions:
– Program end = Constant buzzer,
– Fault warning = Buzzer at 1-second intervals, and
– Sample-collection signal = sets of 3 short beeps followed by a 2-sec pause. Contact Miele Customer Service to program the sample-collection signal.

The numbers shown in the display correspond to the following settings:
20 Buzzer off
21 End of program (factory setting)
22 Error
23 End of program + Error
24 Sample-collection signal
25 End of program + Sample-collection signal
26 Error + Sample-collection signal
27 End of program + Error + Sample-collection signal.

Step	Display / Result
■ Activate the programming mode as per page 35.	
■ Press the "Drying" button until E04 appears in the display.	*E04*
■ Turn the program selector to the "Wash" program.	*21*
■ Press or hold down the "Display" button until the required value appears in the display, e.g., 26.	*26*
■ Save to memory and exit programming mode as per page 35.	

Value selected: _____

The buzzer will sound for 30 sec at the value selected.
To switch it off earlier:

– Turn the program selector to the 12 o'clock position ⊽ .

– Press the "Display" button.

– Interrupt the power supply, e.g., open the door.

How to restore the factory settings

Step	Display / Result
■ Activate the programming mode as per page 35.	
■ While in programming mode, press or hold down the "Drying" button until E33 appears in the display.	*E33*
■ Turn the program selector to a program.	
Basic factory setting(s): Reprogrammed setting(s):	*00* *PP*
■ When *PP* appears in the display, press the "Display" button.	*00*, the factory settings have been restored.
■ Save to memory and exit programming mode as per page 35.	

The water softener has been restored to the factory settings. Reprogramming is required (see "How to program the water softener").

Maintenance

After every 1,000 hours of operation, or at least once a year (but never later than every 18 months), Miele Customer Service will need to perform routine maintenance on the washer-disinfector.

Maintenance covers the following points:

– electrical integrity,

– door mechanics and seals,

– connectors and fittings in the wash cabinet,

– water inflow and outflow,

– internal and external dosage systems,

– spray arms,

– filter combination,

– collector with drain pump and non-return valve,

– all baskets, inserts and modules,

– steam condensor.

During maintenance, the following function checks are run:

– a program test run,

– electrothermal measurement,

– seals testing,

– all safety-related measurement systems (error read-out).

Process validation

It is the responsibility of the operator to routinely check that the required cleaning and disinfection processes are being conducted.
In some countries, this is also required by national legislation, regulations or recommendations.

Operators are also bound to such checks under the international standard **EN ISO 15883**.

Routine checks

Before each day's use, the operator must conduct a series of routine checks. A routine checklist is supplied with the washer-disinfector.

The following items must be checked:

– the filters in the wash cabinet,

– the spray arms in the washer-disinfector and on the baskets,

– the wash cabinet and the door seals,

– the dosage system and

– the baskets and inserts.

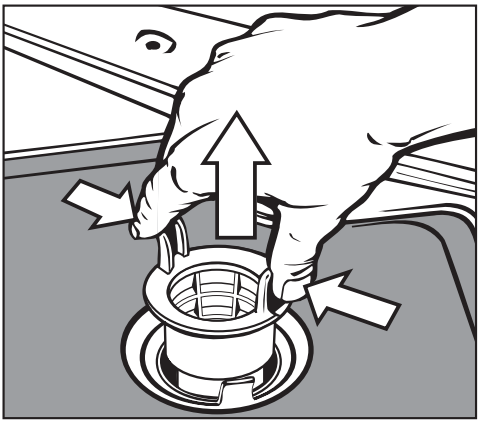
Cleaning the filters in the wash cabinet

The filters in the base of the wash cabinet prevent large particles from entering the circulation pump.
These filters can become blocked and need to be inspected on a daily basis and cleaned as needed.

⚠ The machine must NOT be operated without the filters in place.

⚠ Caution - danger of injury from sharp objects such as glass shards, needles, etc.

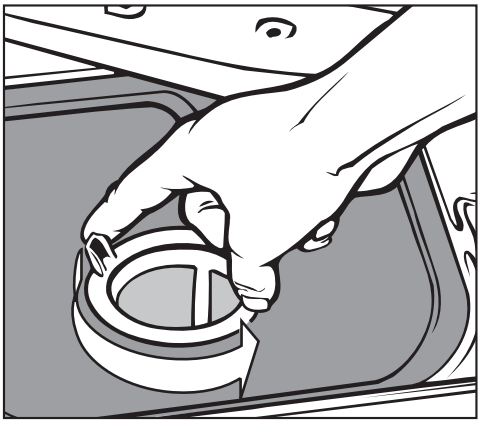
Cleaning the coarse filter



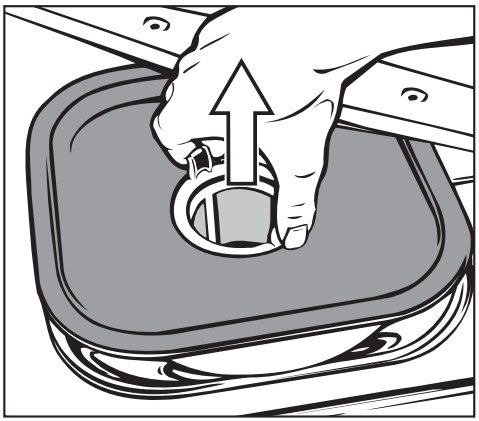
- Squeeze the two tabs together, then remove and clean the coarse filter.
- Put the clean filter back into position and press until it clicks into place.

Cleaning the flat and micro-fine filters

- Remove the coarse filter.
- Remove the fine filter (between the coarse filter and the micro-fine filter).



- Unscrew the micro-fine filter by grasping the two tabs and turning two times counter-clockwise.



- Remove it together with the flat filter.
- Clean the filters.
- Re-insert the filter combination in reverse order. The flat filter must lie flat in the base of the wash cabinet.

Cleaning the spray arms

The spray arm jets can become blocked.
It is important to inspect them every day.

- Use a sharp pointed object to push any particles into the spray arm jets, then rinse thoroughly under running water.

To do so, remove the spray arms as follows:

- Remove the baskets.

Upper basket or mobile unit spray arm (if applicable):

- Loosen the ring nut on the spray arm and remove the arm.

Metal nuts are threaded left.
Ceramic nuts are threaded right.

- Unscrew the **upper** spray arm.
- After loosening the ring nut, remove the **lower** spray arm.
- After cleaning, re-insert the spray arms and tighten down as needed.

After replacing the spray arms, check to make sure that they rotate freely.

Cleaning the control panel

- The control panel should only be cleaned with a damp cloth or with a suitable cleaner for glass or plastic. To disinfect, use an approved cleaning agent.

⚠ Do NOT use abrasive or all-purpose cleaners. The chemicals contained in these products can seriously damage the surface.

Cleaning the front of the appliance

- To clean the stainless steel exterior, use a damp cloth and dish liquid or a non-abrasive stainless steel cleaner.
- To help prevent re-soiling (fingerprints, etc.), a stainless steel conditioner can be used after cleaning.

⚠ Do NOT use thinner or ammonium-based cleaners! They can damage the surface.

⚠ NEVER hose down the machine or the immediate vicinity, e.g., with a water hose or pressure washer.

Cleaning the wash cabinet

The wash cabinet is mostly self-cleaning.

If you notice a build-up of deposits, please contact Miele Customer Service.

Cleaning the door seal

To remove soiling, clean the door seal regularly with a damp cloth.

Damaged or leaky door seals should be replaced by Miele Technical Service.

Dispensing systems

Regularly check the quantities of processing chemicals being used by the washer-disinfector to detect dosing irregularities.

Baskets and inserts

To ensure that the baskets and inserts are functioning properly, they must be checked daily. A checklist is supplied with the washer-disinfector.

Check the following points:

– Are the rollers in proper condition and are they securely attached to the basket / insert?

– Is the basket connection set to the correct height and firmly screwed on?

– Are all spray jets, spray sleeves and hose adapters securely attached to the basket / insert?

– Are all spray jets, spray sleeves and hose adapters unclogged so that wash water can flow through?

– Are all caps, covers and fasteners securely attached to the spray sleeves?

– For mobile units in the modular system, are the caps in the module connection working properly?

if applicable:

– Do the spray arms rotate freely?

– Are the spray jets clogged? See the section on "Cleaning the spray arms".

The following trouble-shooting guide can be used to help address minor problems without a service call, HOWEVER, it is important to note that:

⚠ Repairs should only be performed by Miele Customer Service. Work performed by unqualified persons can place the user at considerable risk of harm.

To help avoid unnecessary service calls, please be sure to check first whether an error message is due to operator error.

To do so:

- Turn the program selector to the 12 o'clock position ⓥ. The error message is erased.
- Press the "ON/OFF" button to switch off the machine.
- Turn the machine back on and re-start the program.
- If the error occurs again and cannot be corrected, contact Miele Customer Service for advice.
- You will need to provide the error code ("F...") .

Error	Cause	Solution
The washer-disinfector will not start.	The door is not properly closed.	Close the door firmly.
	The machine is not plugged in.	Plug in the power cord.
	The fuse is blown or the circuit breaker has tripped.	Set the fuse (see the rating plate for minimum fuse ratings).
	The machine is not turned on.	Press the "ON/OFF" button and select a program.
The machine is not ready for operation.	Error message: **F 04 - F 17**, **F 20 - F - -**	Contact Miele Customer Service.
	Error message: **F 31 - 33**	The dispensing system control is faulty. Contact Miele Customer Service.

Fault	Cause	Solution
Before the start of a program, the indicator light ⓄⓅⒸ Detergent flashes and the program can't be started.		Before addressing the error: – Turn the program selector to the 12 o'clock position ⓥ. The error message is erased. – Press the "ON/OFF" button to switch off the machine.
	Error message: **Fdo**: The liquid detergent container is empty.	Refill or replace the liquid detergent container.
		Then: – Switch the washer-disinfector on. – Restart the program.
A few minutes after the start of a program, the indicator light ⓄⓅⒸ Detergent flashes and the program stops.		Before addressing the error: – Turn the program selector to the 12 o'clock position ⓥ. The error message is erased. – Press the "ON/OFF" button to switch off the machine.
	Error message: **Fdo**: There is a problem dispensing the liquid detergent.	Refill or replace the liquid detergent container. Prime the dosage system (see "Programming special functions").
		Then: – Switch the washer-disinfector on. – Restart the program.

Fault	Cause	Solution
Before the start of a program, the indicator light "Neutralizer" flashes and the program can't be started.		Before addressing the error: – Turn the program selector to the 12 o'clock position ⓥ. The error message is erased. – Press the "ON/OFF" button to switch off the machine.
	Error message: **Fdo**: The neutralizer container is empty.	Refill or replace the neutralizer container.
		Then: – Switch the washer-disinfector on. – Restart the program.
A few minutes after the start of a program, the indicator light "Neutralizer" flashes and the program stops.		Before addressing the error: – Turn the program selector to the 12 o'clock position ⓥ. The error message is erased. – Press the "ON/OFF" button to switch off the machine.
	Error message: **Fdo**: There is a problem dispensing the neutralizer.	Refill or replace the neutralizer container. Prime the dosage system (see "Programming special functions").
		Then: – Switch the washer-disinfector on. – Restart the program.

Fault	Cause	Solution
The refill salt message "Recharge" is flashing.	Because no regeneration salt was added, the water softener could not be reactivated.	Carefully fill the reservoir with reactivation salt.
A few minutes after the start of a program, the "Fill/Drain" indicator light flashes and the program stops.		Before addressing the error: – Turn the program selector to the 12 o'clock position ⊽. The error message is erased. – Press the "ON/OFF" button to switch off the machine.
	Error message: **F..E**: There is a problem with the water inflow.	– Open the water valve completely. – Clean the filter in the water inlet. – The flow pressure at the water connection is too low. Contact a qualified plumber for advice.
		Then: – Switch the washer-disinfector on. – Restart the program.

Fault	Cause	Solution
The rinse program is interrupted and the "Fill/Drain" indicator light is flashing.		Before addressing the error: – Turn the program selector to the 12 o'clock position ⊽. The error message is erased. – Press the "ON/OFF" button to switch off the machine.
	Error message: **F..A**: There is a problem with the water outflow.	– Clean the filter combination in the wash cabinet. – Clean the drain pump. – Clean the non-return valve. – Remove any kinks in the drain hose.
		Then: – Switch the washer-disinfector on. – Drain the water. – Restart the program.
The water in the wash cabinet does not get hot; the program sequence lasts too long.	Error message: **F01 - F03**, **F18**, **F19** The washer-disinfector is equipped with a temperature sensor that switches off the heater when it threatens to overheat. Overheating can occur when, e.g., large items cover the heating elements or when the filters in the wash cabinet are blocked.	Remove the underlying cause: – Clean the filter combination in the wash cabinet. – Rearrange the items. – Reset the temperature sensor (see "How to correct errors - Temperature sensor"

Troubleshooting

Fault	Cause	Solution
After a program, there is detergent residue left behind in the dispenser.	The dispenser was wet when it was loaded.	Make sure the dispenser is dry before loading it.
	The detergent dispenser flap was blocked by items.	Always arrange items such that the dispenser cover can open.
The detergent dispenser cover will not close.	Detergent residue is blocking the latch.	Wipe away any detergent residue.
A banging noise can be heard in the wash cabinet.	A wash arm is hitting the items.	Interrupt the program and re-arrange any items that are blocking the wash arm, **(see "How to interrupt a program")**.
A rattling noise can be heard in the wash cabinet.	Items are moving around in the wash cabinet.	Interrupt the program and re-arrange the items that are loose, **(see "How to interrupt a program")**.
A knocking noise is coming from the water line.	This may be the result of the user having repositioned the water line or a too narrow water line.	Although this will not affect the operation of the washer-disinfector, it may be wise to consult a qualified plumber for advice.
Items show signs of corrosion.	The items are not washer-safe.	Only undamaged items made of surgical stainless steel belong in the washer-disinfector.
	No neutralization took place in the program sequence.	– Fill the neutralizer container.

Error	Cause	Solution
Items show signs of corrosion.	The chloride content of the water is too high.	Test your water composition. If needed, condition the water externally and use demineralized water.
	Rust articles or a rust film appears in the wash cabinet, due to: – excessive iron content in the water, – rusting items in the same washload	– Check the piping. – Remove all rusty items from use.
There are white deposits and/or spots on the items.	The water softener setting is too low.	Test the tap water hardness and program the water softener accordingly.
	There is no reactivation salt in the reservoir.	Carefully fill the reservoir with reactivation salt.
	The screw cap on the reservoir is not firmly tightened.	Properly thread the cap and screw it tight.
	The rinse aid setting is too low, resulting in water spots.	Increase the rinse aid dosage.
	There is dental cement residue on the items.	Remove cement residue from items before it has a chance to harden.

Troubleshooting

Fault	Cause	Solution
There are spots on the items.	The rinse aid setting is too low.	Increase the rinse aid dosage.
	The rinse aid container is empty.	Add rinse aid.
The wash result is unacceptable.	The baskets and inserts were incorrectly loaded or overfull.	Properly arrange the items. Do not overload baskets and inserts.
	The detergent used was not suited to the type/amount of soiling.	Use a suitable detergent for machine washing.
	The items were left soiled for too long.	Do not leave soiled items unwashed for more than 6 hours.
	A spray arm is blocked.	Always arrange the items such that the spray arms are not blocked.
	Nozzles are blocked in the spray arms or inserts.	Check the spray nozzles and clean as needed.
	The wash cabinet filters are dirty.	Check the filters and clean as needed.
	The basket or insert is not properly connected to the water supply.	Use the adapter to properly connect the water supply to the basket or insert.

Temperature sensor

The washer-disinfector is equipped with a (re-settable) temperature sensor that switches off the heater when it threatens to overheat. Overheating can occur when, for example, large items cover the heating elements or if the filters in the wash cabinet are blocked.

If the display shows any of the following fault messages: **F01 - F03**, **F18**, **F19** (the water in the wash cabinet does not get hot; the program sequence lasts too long) take the following steps:

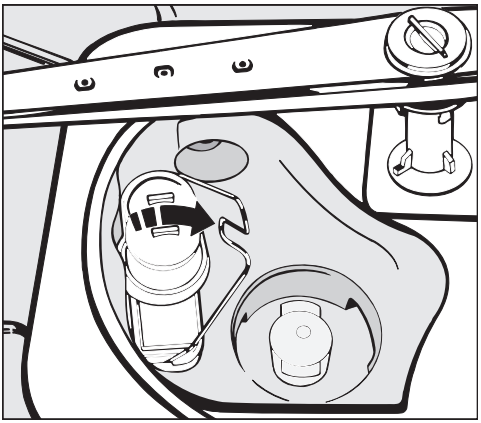
- Remove the underlying cause.
- Remove the service panel.
- Press the re-set button for the thermostat on the right side of the plinth.

If the thermostat is triggered again, please contact Miele Customer Service without delay.

Cleaning the non-return valve and drain pump

If you find that water has not been pumped away at the end of a program, the drain pump or non-return valve may be blocked. You can remove the blockage yourself.

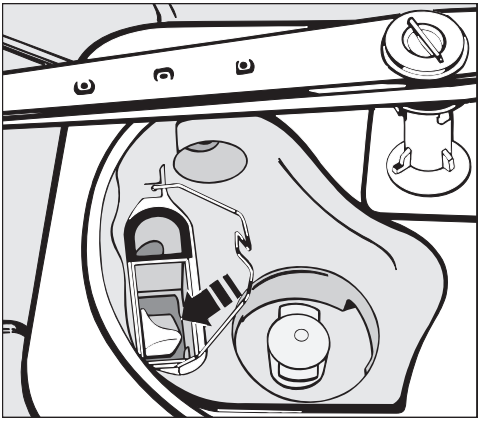
- Remove the filter combination from the wash cabinet.



- Flip the fastening clamp to the side.
- Pull the non-return valve up and out and rinse it under running water.

⚠ Caution: Use proper eye protection when removing the non-return valve.

The drain pump is located beneath the non-return valve (see arrow).



- Before putting the non-return valve back into place, check that the drain pump is not blocked.
- Carefully put the non-return valve back into place and close the fastening clamp.

For safety reasons, the load should be washed again.

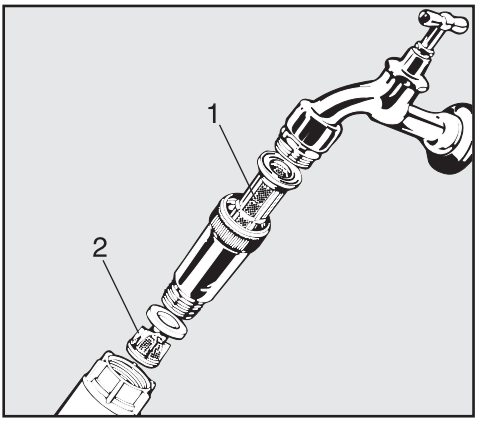
Cleaning the filter in the water inlet

There are filters in the screw connection of the water inlet hose to protect the water inlet valve. When the filters become dirty, they need to be cleaned so that enough water can flow into the wash cabinet.

⚠ The plastic housing of the water connection contains an electrical component. It must NOT be submerged in water.

Cleaning the filter

- Disconnect from the power supply.
- Turn off the water supply and unscrew the water inlet hose.



- Clean the large area filter (1) and fine filter (2) and replace with new filters if needed.
- Put the filter and seal back into place and make sure they are sitting correctly.
- Reconnect the water inlet valve to the water valve, making sure it goes on straight.
- Slightly open the water tap.

If there is a leak, check that the connection is on straight and tight enough.

- Straighten it to sit correctly, then tighten and test again.

Correcting faults

If a fault occurs and cannot be corrected using these Operating Instructions, please contact Miele Technical Service.

- When contacting the Service department, you will need to quote **the model and serial number** of your appliance.

This information can be found on the model plate (see "Electrical connection").

- You will also need to report the fault message that appears in the washer-disinfector display.

Please refer to the installation diagram supplied with the appliance.

⚠ In order to reduce the risk of steam damage, the area around the machine should be limited to furniture and fittings that are designed for use in commercial wash environments.

The washer-disinfector must be in a stable and level horizontal position.

Use the front screw feet to compensate for unevenness in the floor or to adjust the height of the appliance.

Installation options:

– **Free-standing**

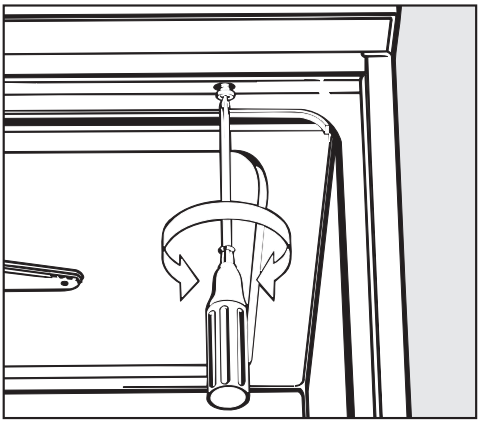
– Slide-in:
Next to other machines or furniture or in a suitable space. The space must be at least 60 cm wide and 60 cm deep.

– **Undercounter:**
The washer-disinfector can be installed under a continuous countertop.
The recess must be at least 60 cm wide, 60 cm deep and 85 cm high.

Undercounter installation

To install the machine under a continuous countertop, the machine lid can be removed, as follows:

■ Open the door.



■ Unscrew the left and right fastening screws.

■ Pull the lid forward approx. 5 mm, then lift it upwards and off.

Washer-disinfectors with a steam condensor:
To prevent steam damage to the countertop, the adhesive protective foil (25 x 58 cm) delivered with the machine needs to be attached underneath the counter near the steam condensor.

How to position and secure the machine

To ensure stability the washer-disinfector must first be aligned and then secured to the countertop.

- Open the door.
- Screw the washer-disinfector to the countertop through the left and right holes in the front trim.
- Do NOT use silicone sealant to seal the gaps between the washer-disinfector and any neighboring units as this would hinder ventilation to the circulation pump.

How to protect the countertop

Depending on your requirements for installation, contact Miele Customer Service for countertop protection kits.

The underside of the countertop is protected from steam damage by a stainless steel plate.

Decorative frame and decorative panel (Option)

The front of the washer-disinfector can be fitted with a decorative panel to match the cabinetry.

Decorative panels should only be exchanged in accordance with all applicable safety regulations.

Decorative panel dimensions:
Outer door panel H 442 / W 586 mm
Mounting plate H 117 / W 586 mm / D 1.2 mm thick

Toe kick service panel H 117 mm / W 586 mm / D 1.2 mm thick

⚠ All electrical work must be performed by a suitably qualified electrician in accordance with local and national safety regulations.

– Electrical connection should be made via a suitable isolator with an on-off switch which should be easily accessible for servicing work.
– The electrical connection is made through a receptacle according to national requirements. The receptacle has to be easily accessible after installation.
– For increased safety, it is URGENTLY recommended to install a protective switch (30 mA) before the machine.
– To replace the power cord, use only original Miele replacement parts or a suitable cord with core cable ends.
– For technical data, see the data plate or attached wiring diagram.

The machine must only be operated with the voltage, frequency and fusing shown on the **data plate**.

The machine can be converted according to the supplied conversion diagram and wiring diagram.

The **data plate** is located on the rear of the machine, behind the plinth, on the plastic cover.

The **wiring diagram** is secured to the machine.

See the supplied installation diagram.

WARNING THIS APPLIANCE MUST BE GROUNDED

Grounding connection

The ground lead must be connected to the screw connection point (marked with the ground symbol) at the back of the machine.

⚠ The machine must only be operated with the voltage, frequency and fusing shown on the data plate located on the rear of the machine and on the plinth (behind the service panel).

The **conversion diagram** and the **wiring diagram** are located in the document pouch.

Connecting to the water inlet

⚠ The water in the machine is NOT suitable for drinking.

– The machine must be connected to the water supply in accordance with local and national regulations.

– For technical application reasons, the machine is supplied as standard for connection to **cold water only**. The inlet hoses (water inlet and steam condenser) must only be connected to the cold water inlets. See also "DI water connection" (hose marked H2O pure).

– High iron content can leave a rust film on stainless steel items and on the machine itself. If the chloride content in the domestic water supply is above 100mg/l, the risk of corrosion damage to items is greatly increased.

– Acceptable water pressure (flow rate): 10 - 147 psi

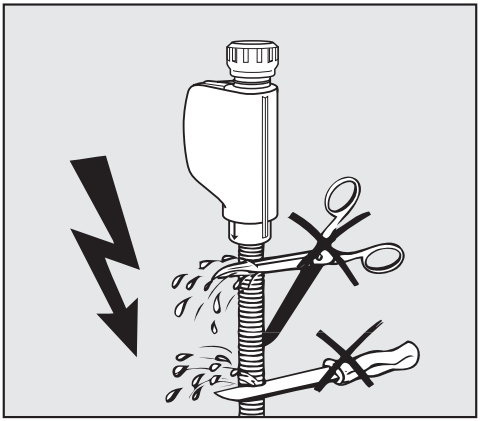
– Recommended water pressure (flow rate): 25 - 60 psi

– If the water pressure is not in the range listed above, the "Fill/Drain" indicator may come on and the fault code "F..E" will appear in the display. If this occurs, contact the Miele Technical Service Department for advice.

– All inlet hoses are approx. 5ft (1.5 m) long, ending with a 3/4" GHT female thread. Under no circumstances should the inlet filters be removed.

– Water valves with 3/4" thread are to be provided on site. They should be easily accessible because the water supply will need to be turned off when not in use.

– Large surface area filters are supplied with the machine for installation between the inlet and the inlet hose (see illustration under "How to clean the water inlet filters"). The large surface area filter for distilled water is made of stainless steel and can be recognized by the matte surface.



⚠ **NEVER** attempt to shorten or otherwise compromise the inlet hose (see illustration).

See the supplied installation diagram.

DI water connection

The machine is equipped for optional connection to a DI water supply. When the water pressure is below the recommended pressure, the water intake time is automatically extended.

Acceptable water pressure (flow rate): 10 - 147 psi

Recommended water pressure (flow rate): 25 - 60 psi

- Connect the DI hose (pressure-tested and marked with "H_2O pure") with 3/4" GHT male thread to the on-site water valve for distilled water.

If the DI connection will not be used, the electronics may need to be reprogrammed. The water intake hose then remains at the rear side of the machine unconnected.

The DI water connection should not be hooked up (or Y connected) to any water source, it should remain unconnected, unless DI water is available. The instructions below re-program the unit to draw cold tap water for the final rinse instead of the DI water.

Access programming mode by pressing and holding the "Display" and "Start" buttons while simultaneously turning the machine on.

- Press "Drying" once and E01 (programming level) will appear in the display.
- Turn the program knob to the 11 o'clock position (will most likely display 110).
- 110 = Set for DI water intake for final rinse.
- 111 = Always cold water for final rinse instead of DI water.
- Press "Display" until 111 appears in the display.
- Press "Start" twice to save.

Connect the water drain

– The drainage system is fitted with a non-return valve which prevents wastewater from flowing back into the machine through the drain hose.

– It is best to connect the appliance to a **separate** drainage system on site. The on site drain connection point must be located between 0.3 m (1ft) and 1 m (3ft) **above the lower edge of the appliance**.
If it is lower than 0.3 m, lay the hose in a curve at a height of at least 0.3 m.
The drainage system must be able to handle a minimum drainage flow of 16 l/min.

– The drain hose is approx. 1.4 m long and flexible (internal diameter 22 mm). It must not be shortened. Use the supplied hose clamps to secure it into position.

– Longer drain hoses (up to 4 m) can be ordered through Miele.

– The drainage system must not exceed 4 m.

See the supplied installation diagram.

Height including lid Height without lid	85 cm (33 7/16") 82 cm (32 5/16")
Width	60 cm (23 5/8")
Depth Depth with door open	60 cm (23 5/8") 120 cm (47 1/4")
Weight (net)	70 kg (154 lbs)
Voltage / Fuse	see data plate
Power cord	approx. 1.8 m (5' 11")
Water temperature: Cold water DI water connection	 max. 20°C max. 70°C
Static water pressure	max. 145 psi (10 bar)
Min. flow pressure: Cold water DI water connection	 10 - 147 psi (7 - 10 bar) 10 - 147 psi (7 - 10 bar)
Recommended flow pressure: Cold water DI water connection	 ≥ 25 - 60 psi (1.72 - 4.13 bar) ≥ 25 - 60 psi (1.72 - 4.13 bar)
Drain height	min. 0.3 m (1 ft), max. 1 m (3.3 ft)
Room temperature	5°C (40°F) to 40°C (104°F)
Relative humidity: maximum linear decreasing to	 80% for temperatures up to 31°C 50% for temperatures up to 40°C
Altitude above sea level	up to 1500 m (1640 yds)
Contamination level	P2 (as per IEC/EN 61010-1)
Ingress protection rating (as per IEC 60529)	IP20 (ingress of dust)
Noise level in dB (A), peak LpA for cleaning and drying cycles	< 70
Certification marks	CSA, Medical Class II Device Licence
CE mark	MPG Guidelines - 93/42/EEC, Class IIa

Program guide

Choose your program according to the types of instruments or utensils being cleaned and the degree of soiling.

Programs (fixed)	Program Description
Wash	Wash program without disinfection.
Rinse (cold)	Rinse only. To rinse items before a wash program, to avoid excessive foam.
Drain	For draining water out of the machine, e.g. when a program has been interrupted or the "Fill/Drain" indicator illuminates. (Turn the program selector to the "Stop" ⊽ position first).
Disinfection vario	Recommended program for protein soils such as blood and tissue. For cleaning and thermal disinfection at 93°C with 10 minutes holding time for stainless steel instruments.
Disinfection 93°C-10'	For thermal disinfection and cleaning of stainless steel instruments at 93°C with 10 minutes holding time.

Program Sequence					
1. Pre-wash	2. Cleaning and/or thermal disinfection and/or cleaning	3. Interim rinse I with Neutralization	4. Interim rinse II	5. Final rinse [1] and/or disinfection	6. Drying (extra program)
X	X Cleaning 60°C/3’		X	X Rinse 65°C/1’ (DI) DOS 2	(X)
		X			
X	X Cleaning 55°C/5’	X DOS 3	X	X Rinse and Disinfection 93°C/10’ (DI) DOS 2	(X)
	X Disinfection 93°C/10’	X DOS 3		X Rinse 75°C/3’ (DI) DOS 2	(X)

X = Sections included in a program (with temperature/temperature holding time)

DOS 2 = For dispensing rinse aid
DOS 3 = For dispensing neutralizer
DI = Deionized water.

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